

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-44 (canceled)

Claim 45 (previously presented): A peptide comprising an amino sequence provided by Formula II (SEQ ID NO: 39):

Q T X<sup>1</sup> T V G G Q A S X<sup>2</sup> Q A S S L T X<sup>3</sup> L F S X<sup>4</sup> G X<sup>5</sup> K Q N, wherein  
X<sup>1</sup> is either H or T;  
X<sup>2</sup> is either H or R;  
X<sup>3</sup> is either S, G, or R;  
X<sup>4</sup> is either P, L or Q; and  
X<sup>5</sup> is either A, S, or P.

Claim 46 (previously presented): A peptide comprising an amino sequence provided by Formula I (SEQ ID NO: 1):

X<sup>1</sup> T X<sup>2</sup> X<sup>3</sup> X<sup>4</sup> G G X<sup>5</sup> X<sup>6</sup> X<sup>7</sup> X<sup>8</sup> X<sup>9</sup> X<sup>10</sup> X<sup>11</sup> X<sup>12</sup> L X<sup>13</sup> X<sup>14</sup> L F X<sup>15</sup> X<sup>16</sup> G X<sup>17</sup> X<sup>18</sup> Q X<sup>19</sup>,  
wherein,  
X<sup>1</sup> is Q or T,  
X<sup>2</sup> is H, T or R,  
X<sup>3</sup> is V or T,  
X<sup>4</sup> is T or V,  
X<sup>5</sup> is S, V or Q,  
X<sup>6</sup> is A, Q or V,  
X<sup>7</sup> is A, G or S,  
X<sup>8</sup> is R or H,  
X<sup>9</sup> is T, A or Q,  
X<sup>10</sup> is T, A or V,  
X<sup>11</sup> is S, H or R,  
X<sup>12</sup> is G, S or R,  
X<sup>13</sup> is T or V,  
X<sup>14</sup> is S, G or R,  
X<sup>15</sup> is S or R,  
X<sup>16</sup> is P, L, S or Q,  
X<sup>17</sup> is A, P or S,  
X<sup>18</sup> is S, K or Q, and

X<sup>19</sup> is N or K.

Claim 47 (previously presented): A peptide according to claim 46 with an amino acid sequence selected from the group consisting of:

- 2.11 QHTTVGGVQGRQAHSLSLFSPGASQN (SEQ ID NO: 2)
- D6 QTTTTGGQVSHATHGLTGLFSLGPQQK (SEQ ID NO: 3)
- D18 QHTTTGGSSASHQASGLTRLFSQGPSQN (SEQ ID NO: 4)
- F63 QTHVVGGQQRQVSSLVSLFSPGASQK (SEQ ID NO: 5)
- G31 TTHTVGGSVARQVHSLTGLFSPGPQQK (SEQ ID NO: 6)
- L13 QHTTVGGSQAHAAHSLTRLFSPGSSQN (SEQ ID NO: 7)
- M69 QTTVVGGSQARAAHGLVSLFSLGSKQN (SEQ ID NO: 8)
- Z61 QTHVVGGVQGRQTSGLVGLFSPGSKQN (SEQ ID NO: 9)
- R9 QTTVVGGSQSHTVRGLTSLFSPGASQN (SEQ ID NO: 10)
- B26 TTTTTGGQAGHQAHSLSLFSPGASQK (SEQ ID NO: 11)
- B22 QTHVVGGVQSHQTSGLTSLFSPGASQK (SEQ ID NO: 12)
- B35 QHTTTGGVQGHQTSRLTSLFSPGPSQN (SEQ ID NO: 13)
- D29 TTTTVGGQAAHQTHSLTSLFSPGAKQN (SEQ ID NO: 14)
- D33 TTTTTGGQQSHTVHGLVGLFSPGSKQN (SEQ ID NO: 15)
- E26 QHTTVGGVQAHTVRGLTSLFSPGSSQN (SEQ ID NO: 16)
- F80 QHTTTGGQAGHTASSLTGLFSPGAKQN (SEQ ID NO: 17)
- F19 QTTTVGGVASHQAHSLSLTGLFSPGAKQK (SEQ ID NO: 18)
- F78 QHTTTGGQAGHQAHSLSLTGLFSPGAKQN (SEQ ID NO: 19)
- H1 QHTTTGGVVGHATSGLTSLFSPGPSQK (SEQ ID NO: 20)
- L76 TTTTVGGQASHQTSSLTGLFSPGSKQN (SEQ ID NO: 21)
- B24 TTTTVGGQASHTTSSLTGLFSPGASQK (SEQ ID NO: 37)
- M63 QHTTTGGVVSHQTRSLVGLFSPGPQQN (SEQ ID NO: 38)
- M27 QTTTTGGVASHAAHRLTSLFSPGPQQK (SEQ ID NO: 22)
- M122 QTTTTGGSSASHAVSSLTGLFSPGSKQN (SEQ ID NO: 23)
- M129 QTTVVGGSSAGHTASSLVGLFSPGSKQN (SEQ ID NO: 24)
- M119 TTTTVGGQASHTTSSLTGLFSPGSQQN (SEQ ID NO: 25)

R5 QTHTTGGQASHQVSSLVSLFSPGAKQK (SEQ ID NO: 26)  
R6 TTTTGGQVGHQTSGLTGLFSPAQQN (SEQ ID NO: 27)  
R27 TTHVVGGASASHAVRGLTSLFSPGSSQN (SEQ ID NO: 28)

Claim 48 (previously presented): A peptide of any of the following amino acid sequences:

B14 QTTVTGQASHTTSSLTGLFSPGASQK (SEQ ID NO: 29)  
B33 ATHATGGQAAHSTHSLTSLFSPGASQK (SEQ ID NO: 30)  
F81 QTHVTGGSAAHQTGGLTGLFSPGPKQN (SEQ ID NO: 31)  
B18 QTTVVGGQASHVSRSLTGLFSPGSSQK (SEQ ID NO: 32)  
E19 TTHTGGQQAHTTSRLVSLFSPGASQK (SEQ ID NO: 36)  
L72 QTTTAAHTTSGLTGLFSPGAKQN (SEQ ID NO: 33)  
D20 QTHVTGVAGRQTSGLVSLFSPGSSQN (SEQ ID NO: 34)  
D30 QGGVQGHTTSSLVGLFSPGSQQN (SEQ ID NO: 35)

Claims 49-97 (canceled):

Claim 98 (previously presented): The peptide of claim 45, wherein said peptide consists of said amino acid sequence.

Claim 99 (previously presented): The peptide of claim 46, wherein said peptide consists of said amino acid sequence.